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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,431	09/21/2001	Timothy R. Hansen	P-5055D1	6518
75	90 02/12/2004		EXAMINER	
Becton, Dickinson and Company			LUDLOW, JAN M	
1 Becton Drive Franklin Lakes, NJ 07417			ART UNIT	PAPER NUMBER
			1743	
			DATE MAIL ED: 02/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/960,431	HANSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jan M. Ludlow	1743			
The MAILING DATE of this communication app	ears on the cover sheet	with the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of the will expire SIX (6) Moreouse the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>04 D</u>	<u>ecember 2003</u> .				
3) Since this application is in condition for alloward closed in accordance with the practice under E					
Disposition of Claims					
4) ◯ Claim(s) <u>12-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraws 5) ☐ Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>12-20</u> is/are rejected.					
7) Claim(s) is/are objected to.	1 11				
8) Claim(s) are subject to restriction and/o	or election requirement.	·			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 21 September 2001 is/Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	are: a) accepted or be drawing(s) be held in abe tion is required if the draw	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea	ts have been received. ts have been received in onty documents have be	n Application No			
* See the attached detailed Office action for a list	t of the certified copies r	not received.			
		•			
Attachment(s)	A) [] Internit	ew Summary (PTO-413)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper	No(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice 6) Other:	of Informal Patent Application (PTO-152)			

L U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 12-20 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 16-24 of copending Application No. 10/269903. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims refer to "magentizable particles" whereas the copending claims refer to "magnetically responsive particles". In that magnetically responsive particles are magnetic or magnetizable and the claims refer to the removal of magnetization, it would have been obvious to use magnetizable particles.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 12-16, 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Howe et al (5458785) in view of Benner (4638032) and/or Tepic (5591448).

Howe teaches a method of processing magnetic particles. The particles may have DNA bound to them (col. 4, lines 26-50, esp. lines 27-28, 38, 45-50 and col. 6, line 52). The beads may be paramagnetic (col. 4, line 52). Tubes 6, 7 are received in openings in plate 5, pairs of

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magnets 3 pull the beads to the tube sides, fluid is removed, fresh fluid added, the magnet is moved axially (Fig. 4A) to a position free of the tube and the beads resuspended (see, e.g., claim 2; col. 5, lines 35-45; col. 6, lines 40-50; bridge cols. 6-7).

Howe fails to teach applying a magnetic field to demagnetize the particles.

Benner teaches demagnetizing particles in order to prevent aggregation and permit resuspension (col. 17, lines 1-5).

Tepic teaches demagnetizing particles in order to prevent aggregation and permit resuspension (col. 5, lines 40-45, col. 7, lines 1-6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply a magnetic field to the particles of Howe in order to demagnetize them to prevent aggregation and assist in resuspension as taught by Benner and/or Tepic. With respect to the application of an AC magnetic field, an alternating field is taught by Tepic. With respect to positioning of the application of the demagnetizing field, absent a showing of criticality, it would have been obvious to locate the demagnetizing field at any suitable location proximal to the tube in order to perform the demagnetizing function. With respect to the cam, absent a showing of criticality, it would have been obvious to use any known mechanical expedient for moving the magnetic plate for its known function.

8. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Howe and Benner and/or Tepic as applied to claims 12-16, 18-20 above, and further in view of Beinhaus (6117398).

Howe fails to teach temperature control.

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Beinhaus teaches a method of isolating nucleic acids using magnetic particles with heating and cooling.

It would have been obvious to heat and/or cool the tubes of Howe in order to enhance DNA separation as taught by Bienhaus.

- 9. Applicant's arguments filed December 4, 2003 have been fully considered but they are not persuasive.
- The Terminal Disclaimer is not effective to overcome the rejection because an attorney or agent, not of record, is not authorized to sign a terminal disclaimer in the capacity as an attorney or agent acting in a representative capacity as provided by 37 CFR 1.34 (a). See 37 CFR 1.321(b) and/or (c).
- Applicant argues that Howe does not teach nucleic acids bound directly to the particles, but the claims are not so limited. Howe teaches that the polymer is bound to the beads (col. 4, line 29) and that the polymer may be a nucleic acid (col. 4, lines 39-49). Note that in the instant application, the beads may also be coated with a polymer (of unspecified properties) prior to binding the nucleic acid (e.g., p. 8, lines 29-30), analogous to the coating that applicant argues is between the bead and the nucleic acid, resulting in indirect binding.
- 12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jan M. Ludlow whose telephone number is (571) 272-1260. The examiner can normally be reached on Monday-Thursday, 11:30 am - 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jan M. Ludlow Primary Examiner

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Jml

February 5, 2004